## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

Claims 1-530 (Canceled).

531. (Currently amended) A method of treating an angiogenic disease or condition in an animal comprising administering to the animal an amount of a metal-binding peptide which does not have a metal ion bound to it or of a physiologically-acceptable salt of the peptide, the amount of the peptide or salt which is administered to the animal being effective to inhibit angiogenesis, the sequence of the peptide being:

$$P_1 - P_2$$

wherein:

 $P_1$  is:

Xaa<sub>1</sub> Xaa<sub>2</sub> His or

Xaa<sub>1</sub> Xaa<sub>2</sub> His Xaa<sub>3</sub>,

the P<sub>1</sub> portion of the peptide being linear;

 $P_2$  is  $(Xaa_4)_n$ ;

 $Xaa_1$  is the N-terminal amino acid of the peptide, the only substituents on the  $\alpha$ -amino group of  $Xaa_1$  are hydrogen, and  $Xaa_1$  is glycine, alanine, valine, leucine, isoleucine, serine, threonine, aspartic acid, asparagine, glutamic acid, glutamine, lysine, hydroxylysine, histidine, arginine, ornithine, phenylalanine, tyrosine, tryptophan, cysteine, methionine, or  $\alpha$ -hydroxymethylserine;

Xaa<sub>2</sub> is alanine,  $\beta$ -alanine, valine, leucine, isoleucine, serine, threonine, aspartic acid, asparagine, glutamic acid, glutamine, lysine, hydroxylysine, histidine, arginine, ornithine, phenylalanine, tyrosine, tryptophan, cysteine, methionine, or α-hydroxymethylserine;

Xaa<sub>3</sub> is glycine, alanine, valine, lysine, arginine, ornithine, aspartic acid, glutamic acid, asparagine, glutamine or tryptophan; and

P<sub>2</sub> is an amino acid sequence which comprises the sequence of a metal binding site, and

## P<sub>2</sub> contains no more than 10 amino acids

Xaa<sub>4</sub> is any amino acid; and

n is 0-10.

532. (Previously presented) The method of Claim 531 wherein:

Xaa<sub>1</sub> is glycine, alanine, valine, leucine, isoleucine, serine, threonine, aspartic acid, glutamic acid, lysine, hydroxylysine, histidine, arginine, or  $\alpha$ -hydroxymethylserine, and

Xaa<sub>2</sub> is alanine, valine, leucine, isoleucine, threonine, serine, asparagine, glutamine, cysteine, methionine, lysine, hydroxylysine, histidine, arginine, or  $\alpha$ -hydroxymethylserine.

- 533. (Previously presented) The method of Claim 531 wherein  $Xaa_1$  is aspartic acid, glutamic acid, arginine, threonine or  $\alpha$ -hydroxymethylserine.
- 534. (Previously presented) The method of Claim 531 wherein  $Xaa_2$  is alanine, valine, leucine, isoleucine, threonine, serine, asparagine, methionine, histidine or  $\alpha$ -hydroxymethylserine.
  - 535. (Previously presented) The method of Claim 531 wherein Xaa<sub>3</sub> is lysine.
  - 536. (Previously presented) The method of Claim 531 wherein:

 $Xaa_1$  is aspartic acid, glutamic acid, arginine, lysine, threonine, serine or  $\alpha$ -hydroxymethylserine,

 $Xaa_2$  is alanine, valine, leucine, isoleucine, threonine, serine, asparagine, methionine, histidine or  $\alpha$ -hydroxymethylserine, and

Xaa<sub>3</sub>, when present, is lysine.

- 537. (Previously presented) The method of Claim 536 wherein  $Xaa_1$  is aspartic acid or glutamic acid and  $Xaa_2$  is alanine, valine, leucine, isoleucine, threonine, serine or  $\alpha$ -hydroxymethylserine.
- 538. (Previously presented) The method of Claim 537 wherein Xaa<sub>2</sub> is alanine, valine, leucine or isoleucine.
- 539. (Previously presented) The method of Claim 538 wherein  $P_1$  is Asp Ala His or Asp Ala His Lys.

- 540. (Previously presented) The method of Claim 539 wherein P<sub>1</sub> is Asp Ala His Lys.
- 541. (Previously presented) The method of Claim 536 wherein  $Xaa_1$  is arginine, lysine, threonine, serine or  $\alpha$ -hydroxymethylserine, and  $Xaa_2$  is alanine, valine, leucine, isoleucine, threonine, serine or  $\alpha$ -hydroxymethylserine.
- 542. (Previously presented) The method of Claim 541 wherein  $P_1$  is Thr Leu His, HMS HMS His or Arg Thr His.

543-546. (Cancelled)

547. (Currently amended) The method of Claim 531 Claim 546 wherein  $P_2$  comprises one of the following sequences:

$$(Xaa_4)_m Xaa_5 Xaa_2 His Xaa_3$$
, or  $(Xaa_4)_m Xaa_5 Xaa_2 His$ ,

wherein:

Xaa<sub>4</sub> is any amino acid;

m is 0-5; and

 $Xaa_5$  is an amino acid having a free side-chain -NH<sub>2</sub>, and  $(Xaa_4)_m$ , if present, or P<sub>1</sub> is attached to  $Xaa_5$  by means of the side-chain amino group.

- 548. (Previously presented) The method of Claim 547 wherein Xaa<sub>5</sub> is Orn or Lys.
- 549. (Canceled)
- 550. (Currently amended) The method of <u>Claim 531</u> Claim 546 wherein  $P_2$  comprises a sequence which binds Cu(I).
- 551. (Previously presented) The method of Claim 550 wherein  $P_2$  comprises one of the following sequences:

Met Xaa<sub>4</sub> Met,

Met Xaa<sub>4</sub> Xaa<sub>4</sub> Met,

Cys Cys,

Cys Xaa<sub>4</sub> Cys,

Cys Xaa<sub>4</sub> Xaa<sub>4</sub> Cys,

Met Xaa<sub>4</sub> Cys Xaa<sub>4</sub> Xaa<sub>4</sub> Cys,

Gly Met Xaa<sub>4</sub> Cys Xaa<sub>4</sub> Xaa<sub>4</sub> Cys [SEQ ID NO:7],

Gly Met Thr Cys Xaa<sub>4</sub> Xaa<sub>4</sub> Cys [SEQ ID NO:8],

Gly Met Thr Cys Ala Asn Cys [SEQ ID NO:9], or

γ-Glu Cys Gly.

552. (Previously presented) The method of Claim 551 wherein P<sub>2</sub> is Gly Met Thr Cys Ala Asn Cys [SEQ ID NO:9].

553-554. (Canceled)

555. (Currently amended) The method of Claim 531 wherein at least one of the amino acids of  $P_1$  other than  $\beta$ -alanine or glycine, when present, is a D-amino acid.

556-557 (Canceled)

558. (Currently amended) The method of Claim 531 or 555 wherein at least one of the amino acids of  $P_2$  other than  $\beta$ -alanine or glycine, when present, is a D-amino acid.

559. (Canceled)

560. (Currently amended) The method of Claim  $\underline{531}$   $\underline{559}$  wherein the terminal -COOH of  $P_1$ - $P_2$  is substituted to produce -COR<sub>2</sub>, wherein  $R_2$  is -NH<sub>2</sub>, -NHR<sub>1</sub>, -N( $R_1$ )<sub>2</sub>, -OR<sub>1</sub>, or -R<sub>1</sub>, wherein  $R_1$  is an alkyl, aryl or heteroaryl.

561-568. (Canceled)

- 569. (Currently amended) The method of any one of Claims 531-542, 544-548, 550-555, 558-568 or 577-580 Claim 531 wherein the angiogenic disease or condition is a neoplastic disease, a connective tissue disorder, psoriasis, an ocular angiogenic disease, a cardiovascular disease, a cerebral vascular disease, hemophiliac joints, an immune disorder, a benign tumor, hypertrophy, endometriosis, polyposis, or obesity.
- 570. (Previously presented) The method of Claim 569 wherein the angiogenic disease or condition is a neoplastic disease.
- 571. (Previously presented) The method of Claim 570 wherein the neoplastic disease is a tumor.

- 572. (Previously presented) The method of Claim 571 wherein the tumor is located in the bladder, brain, breast, kidney, liver, pancreas, lung, cervix, ovary, prostate, stomach, intestines, colon, rectum, or uterus.
- 573. (Previously presented) The method of Claim 570 wherein the neoplastic disease is tumor metastasis.
- 574. (Previously presented) The method of Claim 569 wherein the angiogenic disease or condition is psoriasis.
- 575. (Previously presented) The method of Claim 569 wherein the angiogenic disease or condition is an ocular angiogenic disease.
- 576. (Previously presented) The method of Claim 575 wherein the ocular angiogenic disease is macular degeneration.

577-580. (Canceled)

581. (New) The method of any one of Claims 550-552 wherein  $P_1$  is Asp Ala His or Asp Ala His Lys.